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REMARKS

Claims 1-25 are pending in the application.

Claims 22-24 were allowed and Claims 8-21 were objected to as being independent upon a rejected base claim.

Claims 1-7, and 25 were rejected under 35 U.S.C. §102(e) as being anticipated by Inoue et al. (U.S. Patent No. 6,515,974).

The rejection of claims 1-7, and 25 as well as the objection of claims 8-21 are being herein respectfully traversed without amendments for at least the following reasons:

Regarding rejected claims 1-7, and 25:

To extend Mobile IP that is typically used in a global internet space, for example even when a destination mobile node has moved from a global network to a private network, Inoue discloses a packet relay device having an "address converting function" provided at the border between the global network and the private network and a home agent provided in the private network.

It is respectfully submitted Inoue's idea can be deemed as a combination of a hierarchized Mobile IP and an address conversion.

In contrast applicant's claimed invention describes an arrangement of a router device that realizes hardware processing at an interface portion of the router in order to increase the processing speed of the home agent itself of the Mobile IP.

Applicant's claimed features are different for the below reasons and the claimed invention has an object, a problem to be solved, and features that are essentially different from those of Inoue.

Specifically, each of the rejected claims are believed to be patentable for at least the following reasons:

claim 1

It is asserted in the Office Action that Inoue's packet relay device 4 corresponds to a mobile node supporting router as recited in applicant's claim 1.

However, according to Inoue's column 5, line 59 to column 6, line 12, other elements (i.e., a home link interface, a foreign link interface, an encapsulating cache, and a processor) regarded in the Office Action as corresponding to those of claim 1 are included in a router device which is different from the packet relay device 4. Applicant's claimed features of the home link interface and foreign link interface, wherein the foreign link interface having the described features is not found in the reference.

Also, as described above, the object of the present invention is not for extending the Mobile IP across networks with different address spaces.

claim 2

Inoue discloses that two types of home agents, i.e. an internet home agent HA-g and a private network home agent HA-p, are associated. This is different from claim 2 of the present invention in that the binding information associates an output interface with the care-of address. In contrast to the references association of an internet home agent HA-g and a private network home agent HA-p.

claim 3

According to Inoue's column 12, lines 63-65, GW-p itself is a care-of address but not an output interface. In contrast claim 3 recites the binding information associates an output interface which outputs the encapsulated packet with the care-of-address.

claim 4

It is respectfully submitted this claim is believed to be patentable at least because of its dependency from independent claim 1.

claim 5

It is respectfully submitted that the "route" mentioned in the Office Action is different from "a packet transfer route" of claim 5.

claim 6

Inoue's packet relay device merely performs an address resolution by the correspondence between HA-p and HA-g, so that the encapsulation cannot be deemed to have been performed. In contrast applicant's claim 6 recites the the processor provides the encapsulated packet to the output interface.

claim 7

Inoue's step (4) maintains the correspondence of Haddr-p/Haddr-g in the NAT correspondence table. However, Inoue's NAT correspondence table is different from the encapsulating cache of claim 7.

claim 25

Since Inoue's home agents 5 and 6 are different element from the packet relay device 4, the Examiners rejection of claim 25 seems to be contradictory in relation to the rejection of claim 1 where the Examiner has equated Inoue's packet relay device 4 with the mobile node supporting router of claim 1.

Accordingly, the rejected claims 1-7, and 25 are believed to be patentably distinguished over Inoue under 35 U.S.C. §102(e).

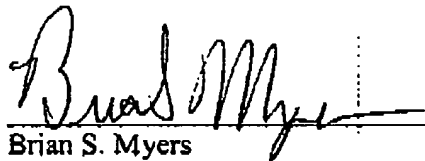
Regarding objected claims 8-21:

These claim is believed to be patentably at least because of their direct or indirect dependency from the allowable claims.

In view of the remarks set forth above, this application is in condition for allowance which action is respectfully requested. However, if for any reason the Examiner should consider this application not to be in condition for allowance, the Examiner is respectfully requested to telephone the undersigned attorney at the number listed below prior to issuing a further Action.

Any fee due with this paper may be charged to Deposit Account No. 50-1290.

Respectfully submitted,



Brian S. Myers
Reg. No. 46,947

CUSTOMER NUMBER 026304
Telephone: (212) 940-8800
Fax: (212) 940-8986 or 8987
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